| | | <u>H'</u> |
|---|---|---|
| | Application No. | Applicant(s) |
| | 10/625,158 | WERNER ET AL. |
| Notice of Allowability | Examiner | Art Unit |
| | Ephrem Alemu | 2821 |
| The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RICO of the Office or upon petition by the applicant. See 37 CFR 1.313 | OR REMAINS) CLOSED in this apport of the appropriate communication GHTS. This application is subject to | plication. If not included will be mailed in due course. THIS |
| 1. This communication is responsive to <u>11-01-05</u> . | | |
| 2. ☑ The allowed claim(s) is/are <u>1-6</u> . | | |
| 3. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have | | |
| Certified copies of the priority documents have | | |
| Copies of the certified copies of the priority docu | • | |
| International Bureau (PCT Rule 17.2(a)). | | national olago application from the |
| * Certified copies not received: | • | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" o noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit | ENT of this application. ted. Note the attached EXAMINER | S AMENDMENT or NOTICE OF |
| INFORMAL PATENT APPLICATION (PTO-152) which gives | | tion is deficient. |
| CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperso | | |
| (a) ☐ including changes required by the Notice of Bransperso 1) ☐ hereto or 2) ☐ to Paper No./Mail Date | in's Patent Drawing Review (P10- | 948) attached |
| (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date | Amendment / Comment or in the O | ffice action of |
| Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the | 4(c)) should be written on the drawing header according to 37 CFR 1.121(c | ngs in the front (not the back) of |
| DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT For a straight of the comment of the comment | t of BIOLOGICAL MATERIAL n OR THE DEPOSIT OF BIOLOGICA | nust be submitted. Note the AL MATERIAL. |
| | | |
| | | |
| Attachment(s) | 5 | |
| Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) | | atent Application (PTO-152) |
| | 6. ☑ Interview Summary Paper No./Mail Date | e <u>11-03-05</u> . |
| Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date |), 7. ☐ Examiner's Amendr | nent/Comment |
| Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. X Examiner's Stateme | nt of Reasons for Allowance |
| or protegrou. Material | 9. Other | Mecacacappy |
| | | Hoanganh Le Primary Examiner |
| | | |

Application/Control Number: 10/625,158

Art Unit: 2821

DETAILED ACTION

Drawings

1. The drawings filed on 2-09-04 are accepted.

Allowable Subject Matter

2. Claims 1- 6 are allowed.

The following is an examiner's statement of reasons for allowance: It is agreed that the prior art of record fail to teach or suggest, alone or in combination, the following limitations: "a fractile array having a plurality of antenna elements uniformly distributed along a Peano-Gosper curve" as claimed in claim 1; "tiling a plane with a plurality of non-uniform shaped unit cells of an antenna array; optimizing the non-uniform shape of the unit cells; and optimizing the tiling of said unit cells" as claimed in claim 3; "a fractile- array comprises an array having an irregular boundary contour, wherein the irregular boundary contour comprises a plane tiled by a plurality of fractiles, the plurality of fractiles covers the plane without any gaps or overlaps, comprising the steps of a) employing a pattern multiplication for fractile array comprising: deriving a product formulation for the radiation pattern of a fractile array for a desired growth" as claimed in claim 5; and a method for rapid radiation pattern formation of a Peano-Gosper fractile array, including the limitation "a) employing a pattern multiplication for fractile arrays, comprising: deriving a product formulation for the radiation pattern of a fractile array for a desired stage of growth" as claimed in claim 6. It is for these reasons in combination with all the other limitations in the independent claims 1, 3, 5 and 6, that claims 1-6 are allowed.

Application/Control Number: 10/625,158

Art Unit: 2821

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ephrem Alemu whose telephone number is (571) 272-1818. The examiner can normally be reached on M-F Flex hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don K. Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EA 11-14-05 Hoanganh Le
Primary Examiner